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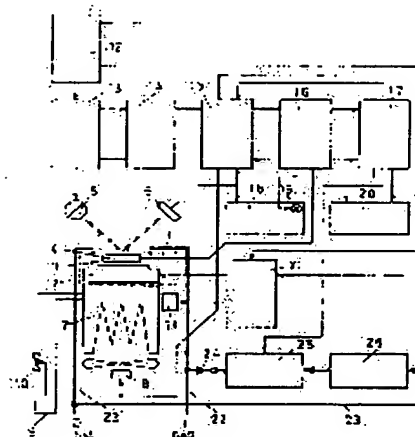
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(54) METHOD AND EQUIPMENT FOR MEASURING DEW POINT OF WET GAS

(57)Abstract:

PURPOSE: To shorten the measuring time of a low dew point by feeding a small quantity of gas containing a large quantity of water into a measuring gas supply tube.

CONSTITUTION: A measuring gas is supplied to and discharged from a dew point mirror 3 through measuring gas circuits 22, 22' having input part I and output part O. A gas valve 24, an injection pump 25 and a humidifier unit 26 are disposed in a subcircuit 23. When a predetermined temperature (lower than an expected dew point by about 10° C, and equal the lowest mirror temperature of -95° C when a very low dew point is expected) is reached, the pump 25 is controlled 17 to inject about 5cm³ of gas having a high water content through a valve 24 into the circuit 22. Consequently, the mirror 3 is coated directly with dew or mist. The measuring gas has low water content and normally guided at a current velocity of 20-40l/h along the mirror 3. According to the arrangement, an initial mist layer 3 of sufficient thickness is formed at a correct time on the mirror 3 and the dew point can be measured in a short time.



LEGAL STATUS

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